

Consulting Engineers and Scientists

January 7, 2015

Project 101.05023.001

Ms. Maria Stowell, P.E. Manager of Engineering Pease Development Authority 55 International Drive Portsmouth, New Hampshire 03801

RE: December 2014 Stormwater Sampling Results

Pease International Tradeport Portsmouth, New Hampshire Permit No. NH0090000

#### Dear Maria:

Ransom Consulting, Inc. (Ransom) completed stormwater sampling at the Pease International Tradeport on the morning of Tuesday, December 9, 2014. Light snow transitioned to a rain/snow mix and then all rain around 3:00 a.m. According to the website monitoring data, the precipitation total in the storm event exceeded 0.1 inch around 10:00 a.m. so Ransom mobilized to the Site to collect the stormwater samples at that time. The previous precipitation event began on December 5, 2014 and ended on December 7 around 12:14 a.m. A decision was made to sample despite a storm separation of less than 72 hours (i.e., approximately 50-60 hours) rather than risk missing a monthly sampling event. The weather forecast for December predicted a rainy stretch through at least December 17, and winter weather was expected to follow; in Ransom's opinion, the sampled storm event was considered to be representative for this time of year.

Sampling personnel observed foam with a yellow/orange tint on the water at the Flagstone Creek outfall upon arrival at this sampling event. The volume of the foam decreased while present at this location. Ransom informed the Pease Development Authority (PDA) of this field observation via email on December 9, 2014. The quarterly visual analysis was completed in October 2014 so a visual analysis assessment form was not completed during this monitoring event.

Deicing of planes and/or runways occurred at the airport in the month prior to the sampling event. Therefore, as required by the Permit, the sampling event included collection of samples for analysis of deicing chemicals (i.e., propylene glycol) from Flagstone Creek and McIntyre Brook in addition to the routine monitoring parameters. The frequency of analysis for propylene glycol is listed as "monthly when discharging" (MM/WD).

The following documents are attached:

1. Record of Storm Events for December 2014 (Attachment A);

- 2. Completed Discharge Monitoring Reports (DMRs) requiring signature and submittal (see below) (Attachment B);
- 3. Field Forms: Stormwater Sampling Field Log dated December 9, 2014, with pH measurements, collection and analysis times, and flow measurements, a Flow Calculation sheet, and Summary of Deicing (Attachment C); and
- 4. Laboratory chemical analysis report from Alpha Analytical, Inc. of Westborough, Massachusetts (L1429561) and Eastern Analytical, Inc. (138919) (Attachment D).

#### **Summary of Stormwater Results**

With the exception of pH at Flagstone Creek (discussed below), routine monthly parameters were within the permit limits. Propylene glycol was detected in the stormwater sample collected from McIntyre Brook at a concentration of 23 milligrams per liter (mg/l), but was not detected in the sample collected from Flagstone Creek. Trichloroethylene (sampled in November but reported on the December DMRs) was not detected in any of the four stormwater samples.

The pH meter was calibrated immediately prior to the sampling event and the calibration was confirmed against the 9.18 S.U. pH Standard. The pH measurements recorded at the first stormwater outfall, Flagstone Creek, were 6.43 and 6.42 specific units (S.U.) for the initial and duplicate samples, respectively. In accordance with the sampling protocol, field personnel collected a second sample for measurement of pH since the initial samples were outside of the acceptable pH range (6.5-8.0 S.U.); the pH for the second sample and duplicate both measured 6.42 S.U., indicating that it appeared to be functioning properly. To confirm the meter calibration prior to sampling the remaining discharge points, the field personnel recalibrated the meter in the field; the calibration was again confirmed against the 9.18 S.U. pH Standard. The pH values of stormwater samples collected from the remaining three locations were within the acceptable pH range.

The laboratory analytical methods and reporting limits for parameters which are shown on the December DMRs as having a "0" concentration value are summarized in the following table:

Parameter	Reporting Limit	Analytical Method
Trichloroethylene	0.50 ug/l	8260C
Biological Oxygen Demand, 5 day	2.0 mg/l	5210B
Oil & Grease	4.0 mg/l	1664A
Surfactants, MBAS	0.050 mg/l	5540C
Propylene Glycol	1 mg/l	8015C mod

ug/l = micrograms per liter; mg/l = milligrams per liter

Ms. Maria Stowell, P.E., Manager of Engineering Pease Development Authority

#### **Submittal of Stormwater Results**

Please sign and submit the DMRs to the U.S. Environmental Protection Agency (U.S. EPA) and New Hampshire Department of Environmental Services (NH DES) no later than January 15, 2015. The original signed and dated DMRs should be submitted to the following address:

U.S. Environmental Protection Agency Water Enforcement, OES4-SMR 5 Post Office Square, Suite 100 Boston, MA 02109-3912

Duplicate signed reports should be submitted to the following address:

Wastewater Engineering Bureau NH DES, Water Division 29 Hazen Drive P.O. Box 95 Concord, NH 03302-0095

Ransom appreciates the opportunity to work with the PDA. If you have any questions regarding this letter, please feel free to call Nancy or Steve.

Sincerely,

RANSOM CONSULTING, INC.

Nancy E. Marshall, P.E. Project Manager

Steven F. Rickerich, P.G. Vice President

NEM/SFR:jar Attachments

## ATTACHMENT A

**Record of Storm Events** 

December 2014 Stormwater Sampling Results
Pease International Tradeport
Portsmouth, New Hampshire
Permit No. NH0090000

## **Record of Storm Events**

PDA Tradeport, Portsmouth, NH

## **DECEMBER 2014**

	radeport, i ortsinoddi, ivii	1	ı	ı		ı	DECEMBER 2014
Date of Event	Time or Duration of Event	Rainfall (Inches)	Measurement Gauge (G) or describe		Site Occur?	Evaluator's Initials	
	. [	0.00	website	Yes	No X	NEM	Comments
2	6:58 a.m Midnight	0.00	website		X	NEM NEM	Light rain/snow mix
3	Midnight – 6:58 a.m.	0.03	website	X	Λ	NEM	Light freezing rain (> 0.1" around
3	Midnight – 0.36 a.m.	0.28	website	Λ		INEIVI	2:00 a.m.
4		0.00	website		X	NEM	
5	10:09 -Midnight	0.02	website		X	NEM	Light freezing rain
6, Sa	Midnight – Midnight	0.78	website	X		NEM	Rain and light rain
7, Su	Midnight – 12:14 a.m.	0.01	website	X		NEM	Rain (continuation of storm event)
8		0.00	website		X	NEM	
9	Midnight - Midnight	2.64	website	X		NEM	Snow - Light freezing rain – heavy rain; > 0.1" after 10:00 a.m.; SAMPLED
10	Midnight – 3:58 p.m.	0.23	website	X		NEM	Light drizzle – light rain
11	Midnight – 10:13 p.m.	0.05	website		?	NEM	Light drizzle; light snow @ 1:58 p.m.
12	5:29 p.m. – 10:05 p.m.	0.00	website		X	NEM	Light snow
13, Sa	5:45 a.m. – 2:58 p.m.	0.05	website		X	NEM	Light snow
14, Su		0.00	website		X	NEM	
15		0.00	website		X	NEM	
16		0.00	website		X	NEM	
17	Midnight – 10:28 a.m.	0.38	website	X		NEM	Light rain - rain
18	Midnight – 9:58 a.m.	0.01	website		X	NEM	Light rain
19		0.00	website		X	NEM	
20, Sa		0.00	website		X	NEM	
21, Su		0.00	website		X	NEM	
22	2:24 p.m Midnight	0.06	website		?	NEM	Light rain
23	3:13 a.m Midnight	0.35	website	X		NEM	Light rain - rain
24	7:13 a.m Midnight	0.41	website	X		NEM	Light drizzle - rain
25	Midnight – 8:58 a.m.	0.08	website	X		NEM	Light drizzle - rain
26		0.00	website		X	NEM	
27, Sa		0.00	website		X	NEM	
28, Su	5:18 a.m. – 9:58 a.m.	0.11	website	X		NEM	Rain
29		0.00	website		X	NEM	
30		0.00	website		X	NEM	
31		0.00	website		X	NEM	
Wohsites	1 // 1		VDCM/2014/12	1/00/A E	II TT'	1 4 1	

Websites <a href="http://www.wunderground.com/history/airport/KPSM/2014/12/29/MonthlyHistory.html">http://www.crh.noaa.gov/data/obhistory/KPSM.html</a>
<a href="http://www.crh.noaa.gov/data/obhistory/KPSM.html">http://www.crh.noaa.gov/data/obhistory/KPSM.html</a>
<a href="http://weather.noaa.gov/weather/current/KPSM.html">http://weather.noaa.gov/weather/current/KPSM.html</a>

## ATTACHMENT B

Discharge Monitoring Reports

December 2014 Stormwater Sampling Results
Pease International Tradeport
Portsmouth, New Hampshire
Permit No. NH0090000

DISCHARGE MONITORING REPORT (DMR)

Form Approved OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME:

PEASE DEVELOPMENT AUTHORITY

ADDRESS: 680 Peverly Rd.

PORTSTMOUTH, NH 03801

FACILITY: PEASE WASTEWATER TREATMENT FACILITY

**LOCATION:** 135 CORPORATE DRIVE

ATTN: DAVID ALLEN P.E. DEPUTY DIR

PORTSMOUTH, NH 03801

NH0090000 002-A PERMIT NUMBER DISCHARGE NUMBER MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 12/01/2014 12/31/2014

DMR Mailing ZIP CODE:

03801-2833

MAJOR

RUNOFF TO FLAGSTONE CREEK

External Outfall

No Discharge

		QUAN	ITITY OR LOADIN	G		QUALITY OR CO	NCENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	mel	0	1/30	GR
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	1972	Monthly	GRAB
рН	SAMPLE MEASUREMENT	*****	*****	*****	6.42	*****	6.43	Su	2	2/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6.5 MINIMUM	*****	8 MAXIMUM	SU	-	Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	有高油水会会	38	mg/L	0	1/30	on
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	****	*****	*****	*****	0	mg/L	Ó	1/30	OK
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	10 DAILY MX	mg/L		Monthly	GRAB
Arsenic, total recoverable	SAMPLE MEASUREMENT	*****	****	*****	****	****	0.01308	mg/L	0	1/30	6R
00978 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
ron, total recoverable	SAMPLE MEASUREMENT	*****	****	*****	*****	*****	2.8	mg/L	0	1/30	C-0
00980 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
Zinc, total recoverable	SAMPLE MEASUREMENT	*****	****	*****	*****	*****	0,04570	mg/L	0	1/30	GR
01094 1 0 Effluent Gross	PERMIT REQUIREMENT	****	****	*****	*****	****	Req. Mon. DAILY MX	mg/L	1.00	Monthly	GRAB
NAME/TITLE PRINCIPAL EXECUTI	evaluate the informal system, or those processes and the informal system.	nalty of law that this document an cordance with a system designed mation submitted. Based on my i persons directly responsible for g	to assure that qualified person nquiry of the person or person athering the information, the in	nnel properly gather and s who manage the					TELI	EPHONE	DATE
TYPED OR PRINTED	to the best of my i	knowledge and belief, true, accur es for submitting false information	ate, and complete. I am aware	that there are	SIGNAT	TURE OF PRINCIPAL	L EXECUTIVE OFFICER ED AGENT	-	REA Code	NIMBER	MMIDDAYAY

## COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

REFER TO PERMIT ISSUED ON AUGUST 8TH 2000 FOR FURTHER MONITORING REQUIREMENTS. --FOR DEICING--- PLEASEWRITE ON DMR THE CHEMICAL USED FORDEICING AND THE MONITORING DATA FOR THAT CHEMICAL AS REQUIRED ON PAGE11 OF YOUR PERMIT. ATTACH ADDITIONAL PAGE FOR COMMENT AND EXPLANATIONOF ANY VIOLATIONS, AS NECESSARY.

NUMBER

MWDD/YYYY

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FACILITY:

PEASE WASTEWATER TREATMENT FACILITY

LOCATION: 135 CORPORATE DRIVE

PORTSMOUTH, NH 03801

ATTN: DAVID ALLEN P.E. DEPUTY DIR

NH0090000	002-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITO	DRING PERIOD
MM/DD/YYYY	DRING PERIOD MM/DD/YYYY

DMR Mailing ZIP CODE:

03801-2833

MAJOR

RUNOFF TO FLAGSTONE CREEK

External Outfall

No Discharge

		QUA	NTITY OR LOADIN	IG		QUALITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Surfactants [MBAS]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.060	*****	mg/L	0	1/30	GR
88260 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	.2 MO AVG	*****	mg/L		Monthly	GRAB
richloroethylene	SAMPLE MEASUREMENT	****	*****	*****	*****	*****	0	M/L	0	1/90	Gn
39180 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	*****	2.91	M60	*****	*****	*****	*****	0	1/30	65
0050 1 0 ffluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	MGD	*****	*****	*****	*****		Monthly	ESTIMA
Chemical oxygen demand [COD]	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	200	mg/L	0	1/30	GR
80108 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
Propylene Glycol		-	~	-			0	mg/L	0	MM/WD	G

	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is,		TELEF	PHONE	DATE
1	to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			
TIPED OR PRINTED		AUTHORIZED AGENT	AREA Code	NUMBER	MWDD/YYYY

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FACILITY: PEASE WASTEWATER TREATMENT FACILITY

LOCATION: 135 CORPORATE DRIVE

PORTSMOUTH, NH 03801

ATTN: DAVID ALLEN P.E. DEPUTY DIR

NH0090000	004-A	
PERMIT NUMBER	DISCHARGE NUMBER	
MONITO	ORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY	

DMR Mailing ZIP CODE:

03801-2833

MAJOR

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR

**AUTHORIZED AGENT** 

External Outfall

RUNOFF TO HARVEY'S CREEK

(GRAFTO

No Discharge

		QUAN	TITY OR LOADING	G		QUALITY OR COM	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
OD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	****	*****	*****	*****	3, 3	mg/L	0	1/30	ON
0310 1 0 ffluent Gross	PERMIT REQUIREMENT	****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
H	SAMPLE MEASUREMENT	*****	*****	*****	7.35	*****	7,35	Su	0	1/30	GR
0400 1 0 ffluent Gross	PERMIT REQUIREMENT	****	*****	*****	6.5 MINIMUM	*****	8 MAXIMUM	SU		Monthly	GRAB
il & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	mg/L	0	1/30	GR
0556 1 0 ffluent Gross	PERMIT REQUIREMENT	****	*****	*****	*****	*****	10 DAILY MX	mg/L	333	Monthly	GRAB
on, total recoverable	SAMPLE MEASUREMENT	*****	****	*****	*****	*****	3.5	mg/L	Ò	1/30	GR
0980 1 0 ffluent Gross	PERMIT REQUIREMENT	****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
lickel, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	****	·******	0,00286	mg/L	0	1/30	GR
1074 1 0 Effluent Gross	PERMIT REQUIREMENT	****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
linc, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	****	*****	0.08376	mg/L	0	1/30	GR
1094 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
ead, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	****	0.00487	mg/L	0	1/30	GR
1114 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB

#### COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

nowing violations.

REFER TO PERMIT ISSUED ON AUGUST 8TH 2000 FOR FURTHER MONITORING REQUIREMENTS.PLEASE ATTACH AN ADDITIONAL PAGE FOR COMMENT AND EXPLANATION OF ANY VIOLATIONS, AS NECESSARY.

evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for

TYPED OR PRINTED

NUMBER

AREA Code

MWDD/YYYY

#### DISCHARGE MONITORING REPORT (DMR)

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NH0090000	004-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITO	DRING PERIOD
MM/DD/YYYY	DRING PERIOD MM/DD/YYYY

DMR Mailing ZIP CODE:

03801-2833

MAJOR

RUNOFF TO HARVEY'S CREEK (GRAFTON)

External Outfall

No Discharge

		QUA	NTITY OR LOADIN	G		QUALITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Surfactants [MBAS]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.070	*****	mg/L	0	1/30	GR
38260 1 0 Effluent Gross	PERMIT REQUIREMENT	****	******	*****	*****	.2 MO AVG	*****	mg/L		Monthly	GRAB
Trichloroethylene	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	MIL	0	1/90	GR
39180 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	Tau Light	Quarterly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	*****	2.91	M60	*****	*****	*****	*****	0	1/30	055
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	MGD	*****	*****	*****	*****		Monthly	ESTIMA
Cyanide, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.056	mg/L	0	1/30	OR
78248 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	******	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB

	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and revaluate the information suburited. Based on my inquiry of the person or persons who manage the		TELEP	HONE	DATE
1	system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR			
TYPED OR PRINTED	Anowing violations.	AUTHORIZED AGENT	AREA Code	NUMBER	MWDD/YYYY

#### COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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LOCATION: 135 CORPORATE DRIVE

PORTSMOUTH, NH 03801

ATTN: DAVID ALLEN P.E. DEPUTY DIR

NH0090000	003-A	
PERMIT NUMBER	DISCHARGE NUMBER	
MONITO	ORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY	

DMR Mailing ZIP CODE:

03801-2833

**MAJOR** 

**AUTHORIZED AGENT** 

RUNOFF TO MCINTYRE BROOK

External Outfall

No Discharge

						NCENTRATION				
	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	NO. EX	OF ANALYSIS	SAMPLE TYPE
SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	68	mg/L	0	1/30	or
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon.	mg/L		Monthly	GRAB
SAMPLE MEASUREMENT	*****	*****	*****	7.63	*****	7-11	SII	0	1/2.	GR
PERMIT REQUIREMENT	*****	*****	*****	6.5	*****	8	SU		Monthly	GRAB
SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	; /	mg/L	Ó	1/30	GR
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon.	mg/L		Monthly	GRAB
SAMPLE MEASUREMENT	*****	****	*****	*****	*****	0	mg/L	0	1/30	GN
PERMIT REQUIREMENT	****	****	*****	*****	*****	10 DAILY MX	mg/L		Monthly	GRAB
SAMPLE MEASUREMENT	*****	****	*****	*****	****		mg/c	. 0	1/30	GR
PERMIT REQUIREMENT	*****	****	*****	*****	*****	Req. Mon.	mg/L		Monthly	GRAB
SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		mg/L	0	1/30	GR
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon.	mg/L		Monthly	GRAB
SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	mg/L	0	1/30	GR
PERMIT REQUIREMENT	*****	*****	*****	*****	.2 MO AVG	*****	mg/L		Monthly	GRAB
supervision in accordance the information and accordance to the information accordance to the information and accordance to the information ac	ordance with a system designed nation submitted. Based on my i	to assure that qualified perso inquiry of the person or person	nnel properly gather and					TEL	EPHONE	DATE
	MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT	MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  TOTAL SAMPLE MEASUREMENT  PERMIT REQUIREMENT  TOTAL SAMPLE MEASUREMENT  TOTAL SAMPLE MEASUR	SAMPLE MEASUREMENT  PERMIT REQUIREMENT  TO THE PERMIT BY THE PE	SAMPLE MEASUREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT	SAMPLE MEASUREMENT  PERMIT REQUIREMENT  TICHTIFY under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and wavaluate the information submitted Based on my inquiry of the person persons who manage the	SAMPLE MEASUREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  D  SAMPLE MEASUREMENT  SAMPLE MEASUREMENT  D  SAMPLE MEASUREMENT  SAMPLE MEASUREMENT  D  SAMPLE MEASUREME	SAMPLE MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  DO  DAILY MX  AND  PERMIT REQUIREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  REQUIREMENT  PERMIT REQUIREMENT  REQUIREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  REQUIREMENT  PERMIT REQUIREMENT  PE	SAMPLE MEASUREMENT PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  PROVIDENT  PERMIT REQUIREMENT  PERMIT REQUIREME	SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  MAXIMUM  MAX	SAMPLE MEASUREMENT PERMIT REQUIREMENT  PERMIT REQUIREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  DAILY MX  MAXIMUM  M

## COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

REFER TO PERMIT ISSUED ON AUGUST 8TH 2000 FOR FURTHER MONITORING REQUIREMENTS. --FOR DEICING--- PLEASEWRITE THE CHEMICAL USED FOR DEICING ON THE DMR AND SUBMIT MONITORING DATA AS REQUIRED ON PAGE 110F PERMITPLEASE ATTACH AN ADDITIONAL PAGE FOR COMMENT AND EXPLANATION OF ANY VIOLATIONS, AS NECESSARY.

TYPED OR PRINTED

NUMBER

AREA Code

MWDD/YYYY

### DISCHARGE MONITORING REPORT (DMR)

Form Approved OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME:

PEASE DEVELOPMENT AUTHORITY

ADDRESS: 680 Peverly Rd.

PORTSTMOUTH, NH 03801

FACILITY:

PEASE WASTEWATER TREATMENT FACILITY

LOCATION: 135 CORPORATE DRIVE PORTSMOUTH, NH 03801

ATTN: DAVID ALLEN P.E. DEPUTY DIR

NH0090000	003-A					
PERMIT NUMBER	DISCHARGE NUMBE					
MONITO						
MONTE	ORING PERIOD					
MM/DD/YYYY	MW/DD/YYYY					

DMR Mailing ZIP CODE:

03801-2833

**MAJOR** 

RUNOFF TO MCINTYRE BROOK

External Outfall

No Discharge

		QU	ANTITY OR LOADIN	IG		QUALITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Trichloroethylene	SAMPLE MEASUREMENT	****	*****	*****	*****	*****	0	mall	D	1190	GR
39180 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	****	*****	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	*****	24.12	M60	*****	****	*****	*****	0	1/30	055
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	MGD	*****	*****	*****	*****		Monthly	ESTIMA
Chemical oxygen demand [COD]	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	93	mg/L	0	1/30	GR
80108 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
Propylene Clycal			_		_	_	23	MIL	0	mywo	on

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and		TELEP	HONE	DATE
	evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am water that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR	_		
TYPED OR PRINTED		AUTHORIZED AGENT	AREA Code	NUMBER	MWDD/YYYY

### COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

REFER TO PERMIT ISSUED ON AUGUST 8TH 2000 FOR FURTHER MONITORING REQUIREMENTS. --FOR DEICING--- PLEASEWRITE THE CHEMICAL USED FOR DEICING ON THE DMR AND SUBMIT MONITORING DATA AS REQUIRED ON PAGE 110F PERMITPLEASE ATTACH AN ADDITIONAL PAGE FOR COMMENT AND EXPLANATION OF ANY VIOLATIONS, AS NECESSARY.

#### DISCHARGE MONITORING REPORT (DMR)

Form Approved OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: PEASE DEVELOPMENT AUTHORITY

ADDRESS: 680 Peverly Rd.

PORTSTMOUTH, NH 03801

FACILITY: PEASE WASTEWATER TREATMENT FACILITY

LOCATION: 135 CORPORATE DRIVE

PORTSMOUTH, NH 03801

ATTN: DAVID ALLEN P.E. DEPUTY DIR

NH0090000	001-A					
PERMIT NUMBER	DISCHARGE NUMBER					
MONITO	ORING PERIOD					
MONTE						
MM/DD/YYYY	MM/DD/YYYY					

DMR Mailing ZIP CODE:

03801-2833

MAJOR

QUALITY OR CONCENTRATION

External Outfall

RUNNOFF TO HODGKINS BROOK

No Discharge

NO. FREQUENCY SAMPLE

		QUAR	TITT OR LUADING	3		QUALITY OR CON	CENTRATION		NO. FREQUENC		1
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	4.5	mg/L	D	1/30	GR
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
Н	SAMPLE MEASUREMENT	*****	*****	*****	7,72	****	7,72	Su	0	1/30	GR
0400 1 0 iffluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6.5 MINIMUM	*****	8 MAXIMUM	SU		Monthly	GRAB
Dil & Grease	SAMPLE MEASUREMENT	****	*****	*****	*****	*****	0	mg/L	0	1/30	GR
0556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	10 DAILY MX	mg/L		Monthly	GRAB
ron, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	2.0	mg/L	0	1/30	GR
0980 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
ead, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0,00725	mg/L	0	1/30	GN
1114 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
Surfactants [MBAS]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.070	*****	mg/L	0	1/30	Ga
8260 1 0 iffluent Gross	PERMIT REQUIREMENT	****	*****	*****	*****	.2 MO AVG	*****	mg/L		Monthly	GRAB
richloroethylene	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	male	0	1190	GV
89180 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	****	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
NAME/TITLE PRINCIPAL EXECU	supervision in acceptable the information of the supervision in acceptable to the supervision in ac	nalty of law that this document a cordance with a system designs mation submitted. Based on m persons directly responsible for	ed to assure that qualified person y inquiry of the person or person	onnel properly gather and ns who manage the				,	TEL	EPHONE	DATE
TYPED OR PRINTE	to the best of my significant penalt	knowledge and belief, true, acc es for submitting false informat	urate, and complete. I am awai	re that there are	SIGNA	TURE OF PRINCIPAL AUTHORIZI	EXECUTIVE OFFICER		AREA Code	NUMBER	MMIDDIVVV

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

REFER TO PERMIT ISSUED ON AUGUST 8TH 2000 FOR FURTHER MONITORING REQUIREMENTS.PLEASE ATTACH AN ADDITIONAL PAGE FOR COMMENT AND EXPLANATION OF ANY VIOLATIONS, AS NECESSARY.

QUANTITY OR LOADING

TYPED OR PRINTED

NUMBER

AREA Code

MWDD/YYYY

#### DISCHARGE MONITORING REPORT (DMR)

Form Approved OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME:

PEASE DEVELOPMENT AUTHORITY

ADDRESS: 680 Peverly Rd.

PORTSTMOUTH, NH 03801

FACILITY:

PEASE WASTEWATER TREATMENT FACILITY

LOCATION: 135 CORPORATE DRIVE

PORTSMOUTH, NH 03801

ATTN: DAVID ALLEN P.E. DEPUTY DIR

NH0090000	001-A					
PERMIT NUMBER	DISCHARGE NUMBER					
MONITO	DRING PERIOD					
MM/DD/YYYY	MM/DD/YYYY					

DMR Mailing ZIP CODE:

03801-2833

MAJOR

RUNNOFF TO HODGKINS BROOK (

External Outfall

No Discharge

		QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	*****	12.06	M60	*****	*****	*****	*****	0	1/30	631
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	MGD	****	*****	*****	*****		Monthly	ESTIMA

	certify under penalty of law that this document and all attachments were prepared under my direction or upervision in accordance with a system designed to assure that qualified personnel property gather and valuate the information submitted. Based on my inquiry of the person or persons who manage the ystem, or those persons directly responsible for gathering the information, the information submitted is,		TELEP	HONE	DATE
	to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR			
TYPED OR PRINTED		AUTHORIZED AGENT	AREA Code	NUMBER	T

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

REFER TO PERMIT ISSUED ON AUGUST 8TH 2000 FOR FURTHER MONITORING REQUIREMENTS. PLEASE ATTACH AN ADDITIONAL PAGE FOR COMMENT AND EXPLANATION OF ANY VIOLATIONS, AS NECESSARY.

## ATTACHMENT C

Stormwater Sampling Field Log; Flow Calculation Sheet; Usage of Deicing Chemicals

December 2014 Stormwater Sampling Results Pease International Tradeport Portsmouth, New Hampshire Permit No. NH0090000



#### STORMWATER SAMPLING FIELD LOG

Project Name:

Pease Tradeport

Project Number:

101.05023.001

Sampling/pH Analysis Date:

12-9-14

	Flow (Q) Measurement (MGD) = Velocity (V) x Area (A )= Flow (ft3/sec) x 0.646	
	where: V = distance (ft) / time (sec); A = width (ft) x depth (ft)  Conductivity of Distilled Water: O O Date of Test: 12-4-4-4	
	pH meter calibration procedure Calibrated Hanna & H meter To Fill	+10.01
	butter Solution + Check against 9.18pH - Meter Min spe	
	Outfall 002: Flagstone Creek (by runway, need key) Flow Q= MGD	
	pH Sample Collected by: Collection time: ///	10
	pH= 1,45 Water Temp= 7,8 Time: 11,59 Analyst: 15	
	Duplicate pH= 6.4 Water Temp= 4.4 Time: 11:54 Analyst: 6.40 PM pH Sample Collected @ 11:00 (0:42 pH 14.15 0 (1:02	
	Velocity: distance= 4 ft // sec	
	Area: width= 4/5 ft 0/42 pH 5/8 depth= inches	
	Grab Samples collected for laboratory analysis by: Cally Time = 10:55	
DATA:	Outfall 004: Grafton (aka Harvey's Creek)(by road) Flow Q= MGD	
X	pH Sample Collected by: Collection time:	10
4.6	pH= 7.35 Water Temp= Analyst: 5	In
	Duplicate pH= Water Temp= Time: /2/38 Analyst: Analyst: Time: /2/38 Analyst:	ha. Je
	Velocity: distance= 4 ft time= 4 sec	
	Area: width= ft depth= finches	
	Grab Samples collected for laboratory analysis by:	
1	Outfall 003: McIntyre Brook (OWS), Flow Q= MGD	
A	pH Sample Collected by: Collection time: /21/4	
	pH= 7.63 Water Temp= / 5 Time: /21/6 Analyst:	1
	Duplicate pH= 765 Water Temp= Time: 217 Analyst: MA	2.68
		7
	Flow Measurements, Flow Calculations by:     Second	7_
	Velocity: distance= / sec	7_
	Velocity: distance= ft time= sec   Area: width= ft depth= inches	7_
Ver	Velocity: distance= ft time= sec   Area: width= ft depth= loginches   Grab Samples collected for laboratory analysis by: ft Time = 1/155	7_
*	Velocity: distance= ft time= sec   Area: width= ft depth= inches	7
X	Velocity: distance= ft time= sec   Area: width= ft depth= inches   Grab Samples collected for laboratory analysis by: Time = ///55    Outfall 001: Hodgson Brook (by WWTP)  Flow Q=  MGD	
X	Velocity: distance= ft time= sec   Area: width= ft depth= inches   Grab Samples collected for laboratory analysis by: Time = ///55    Outfall 001: Hodgson Brook (by WWTP)  (a.k.a. "Hodgkins Brook")	
X	Velocity: distance=	
*	Velocity: distance=	
X	Velocity: distance= / ft time= / sec Area: width= / ft depth= / inches Grab Samples collected for laboratory analysis by: / / / Time = ///55  Outfall 001: Hodgson Brook (by WWTP) Flow Q= MGD  (a.k.a. "Hodgkins Brook")  pH = 772 Water Temp= / Time: /2:56 Analyst:  Duplicate pH= 769 Water Temp= / Time: /2:56 Analyst: Flow Measurements, Flow Calculations by:  Velocity: distance= ft time= sec	
X	Velocity: distance=	
X	Velocity: distance= / ft time= / sec Area: width= / ft depth= / inches Grab Samples collected for laboratory analysis by: / / / Time = ///55  Outfall 001: Hodgson Brook (by WWTP) Flow Q= MGD  (a.k.a. "Hodgkins Brook")  pH = 772 Water Temp= / Time: /2:56 Analyst:  Duplicate pH= 769 Water Temp= / Time: /2:56 Analyst: Flow Measurements, Flow Calculations by:  Velocity: distance= ft time= sec	



### STORMWATER FLOW CALCULATION SHEET

Project Name: Pease Tradeport
Project Number: 101.05023.001
Sampling Date: 12/9/2014

Flow Calcs by: NEM

Flow (Q) Measurement (ft $^3$ /sec) = Velocity (V) x Area (A) where: V = distance (ft) / time (sec)

 $A = width (ft) \times depth (ft)$ 

Flow (Q) in MGD = Flow ( $ft^3$ /sec) x 0.646

		. ,				
Outfall 002: Fi						
Flow Measurer	ments by:	BAB				
Velocity:	distance=	4	ft	time(t)=_	3	sec
Area:	width (w)=_	4.5	ft	depth(d)=_	9	inches
	Flow Q=		4.50 <b>cfs</b>	Flow Q=	2.91	MGD
Outfall 004: G	rafton (aka H	larvey's Cr	eek)			
Flow Measurer	ments by:	BAB				
Velocity:	distance=	4	ft	time=_	4	sec
Area:	width=_	6	ft	depth=_	9	inches
	Flow Q=		4.50 <b>cfs</b>	Flow Q=	2.91	MGD
Outfall 003: M	cIntyre Broo	k (OWS)				
Flow Measurer	ments by:	BAB				
Velocity:	distance=_	4	ft	time=_	1	sec
Area:	width=_	7	ft	depth=_	16	inches
	Flow Q=	3	37.33 <b>cfs</b>	Flow Q=	24.12	MGD
Outfall 001: H	odgkins Bro	ok (by WW	TP)			
Flow Measurer	ments by:	BAB				
Velocity:	distance=_	4	ft	time=_	2	sec
Area:	width=	8	ft	depth=_	14	inches
	Flow Q=	,	18.67 <b>cfs</b>	Flow Q=	12.06	MGD

## Usage of Deicing Chemicals Winter 2014-2015 Pease International Tradeport Portsmouth, New Hampshire

Month/Yr	Day	Time	Location	Propylene Glycol	Quantity (gal)	Company				
Nov 2014	1	10:14 - 21:58		Discharge Event (	(0.22")					
	2	5:12 - 14:58		Discharge Event	(0.19")					
	6	10:58 - 21:58	Discharge Event (0.27")							
	14	00:00 - 7:13	Storm Event, rain/snow mix, then snow (0.13")							
	14	7:00	NHANG Apron	Type I	104	NH ANG				
	17	2:58 - 10:28	Discharge Event (0.85")							
	24	19:58-23:58	Discharge Event: Light rain-rain (0.40"); SAMPLED							
	26	9:58 - 24:00		Discharge Event (	(0.77")					
Dec 2014	3	0:00	Discharge Event (0.31+")							
	3	9:30	NHANG Apron	Type I	1,400	NH ANG				
	3	9:39	Terminal Apron	Type I	87	Port City				
	6	00 - 24:00		Discharge Event	(0.79")					
	9-10	00 - 24:00	Disc	harge Event (2.87")	SAMPLED					
	11	18:00	NHANG Apron	Type I	200	NH ANG				
	11	21:30	NHANG Apron	Type I	500	NH ANG				
	13	6:58	General Aviation	Type I	4.7	Port City				
	17	00 - 10:28		Discharge Event	(0.38")					
	23-25	00 - 8:58		Discharge Event	(0.84")					
	28	05:18 - 9:58		Discharge Event (	(0.11")					

## ATTACHMENT D

Laboratory Chemical Analysis Reports

December 2014 Stormwater Sampling Results
Pease International Tradeport
Portsmouth, New Hampshire
Permit No. NH0090000



#### ANALYTICAL REPORT

Lab Number: L1429561

Client: Ransom Consulting, Inc.

112 Corporate Drive

101.05023.001

Pease International Tradeport

Portsmouth, NH 03801

ATTN: Nancy Marshall Phone: (603) 436-1490

Project Name: PDA NPDES

Report Date: 12/16/14

Project Number:

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



**Project Name:** PDA NPDES **Project Number:** 101.05023.001

**Lab Number:** L1429561 **Report Date:** 12/16/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1429561-01	FLAGSTONE CREEK	WATER	PEASE INTERNATIONAL TRADE PORT	12/09/14 10:55	12/09/14
L1429561-02	GRAFTON	WATER	PEASE INTERNATIONAL TRADE PORT	12/09/14 11:25	12/09/14
L1429561-03	MCINTYRE BROOK	WATER	PEASE INTERNATIONAL TRADE PORT	12/09/14 11:55	12/09/14
L1429561-04	HODGSON BROOK	WATER	PEASE INTERNATIONAL TRADE PORT	12/09/14 12:50	12/09/14



 Project Name:
 PDA NPDES
 Lab Number:
 L1429561

 Project Number:
 101.05023.001
 Report Date:
 12/16/14

#### **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Brym Vanyf Bryan Vangel

Authorized Signature:

Title: Technical Director/Representative

ANALYTICAL

Date: 12/16/14

# **METALS**



Project Name:PDA NPDESLab Number:L1429561Project Number:101.05023.001Report Date:12/16/14

**SAMPLE RESULTS** 

Lab ID: L1429561-01 Date Collected: 12/09/14 10:55

Client ID: FLAGSTONE CREEK Date Received: 12/09/14
Sample Location: PEASE INTERNATIONAL TRADE PORT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	borough L	_ab									
Arsenic, Total	0.01308		mg/l	0.00050		1	12/11/14 11:07	12/12/14 12:56	EPA 3005A	1,6020A	KL
Iron, Total	2.8		mg/l	0.05		1	12/11/14 11:07	12/12/14 12:24	EPA 3005A	19,200.7	TT
Zinc, Total	0.04570		mg/l	0.01000		1	12/11/14 11:07	12/12/14 12:56	EPA 3005A	1,6020A	KL



Project Name:PDA NPDESLab Number:L1429561Project Number:101.05023.001Report Date:12/16/14

**SAMPLE RESULTS** 

 Lab ID:
 L1429561-02
 Date Collected:
 12/09/14 11:25

 Client ID:
 GRAFTON
 Date Received:
 12/09/14

Sample Location: PEASE INTERNATIONAL TRADE PORT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough l	Lab									
Iron, Total	3.5		mg/l	0.05		1	12/11/14 11:0	7 12/12/14 12:43	EPA 3005A	19,200.7	TT
Lead, Total	0.00487		mg/l	0.00050		1	12/11/14 11:0	7 12/12/14 13:45	EPA 3005A	1,6020A	KL
Nickel, Total	0.00286		mg/l	0.00050		1	12/11/14 11:0	7 12/12/14 13:45	EPA 3005A	1,6020A	KL
Zinc, Total	0.08376		mg/l	0.01000		1	12/11/14 11:0	7 12/12/14 13:45	EPA 3005A	1,6020A	KL



 Project Name:
 PDA NPDES
 Lab Number:
 L1429561

 Project Number:
 101.05023.001
 Report Date:
 12/16/14

**SAMPLE RESULTS** 

Lab ID: L1429561-03 Date Collected: 12/09/14 11:55

Client ID: MCINTYRE BROOK Date Received: 12/09/14
Sample Location: PEASE INTERNATIONAL TRADE PORT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	borough l	_ab									
Iron, Total	2.6		mg/l	0.05		1	12/11/14 11:0	7 12/12/14 12:47	EPA 3005A	19,200.7	TT
Zinc, Total	0.02963		mg/l	0.01000		1	12/11/14 11:0	7 12/12/14 13:49	EPA 3005A	1,6020A	KL



Project Name:PDA NPDESLab Number:L1429561Project Number:101.05023.001Report Date:12/16/14

**SAMPLE RESULTS** 

 Lab ID:
 L1429561-04
 Date Collected:
 12/09/14 12:50

 Client ID:
 HODGSON BROOK
 Date Received:
 12/09/14

Sample Location: PEASE INTERNATIONAL TRADE PORT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - W	estborough l	_ab									
Iron, Total	2.0		mg/l	0.05		1	12/11/14 11:0	7 12/12/14 13:10	EPA 3005A	19,200.7	TT
Lead, Total	0.00725		mg/l	0.00050		1	12/11/14 11:0	7 12/12/14 13:53	EPA 3005A	1,6020A	KL



**Project Name:** Lab Number: PDA NPDES L1429561 **Project Number:** 101.05023.001 **Report Date:** 12/16/14

## **Method Blank Analysis Batch Quality Control**

Parameter	Result Qu	alifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westboro	ugh Lab for s	sample(s): 01-04	4 Batch:	WG74	7675-1				
Arsenic, Total	ND	mg/l	0.00050		1	12/11/14 11:07	12/12/14 12:31	1,6020A	KL
Lead, Total	ND	mg/l	0.00050		1	12/11/14 11:07	12/12/14 12:31	1,6020A	KL
Nickel, Total	ND	mg/l	0.00050		1	12/11/14 11:07	12/12/14 12:31	1,6020A	KL
Zinc, Total	ND	mg/l	0.01000		1	12/11/14 11:07	12/12/14 12:31	1,6020A	KL

**Prep Information** 

Digestion Method: EPA 3005A

Parameter	Result Qu	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Westbor	ough Lab for	sample(s	s): 01-04	Batch:	WG74	7677-1				
Iron, Total	ND		mg/l	0.05		1	12/11/14 11:07	12/13/14 11:01	19,200.7	ВС

**Prep Information** 

Digestion Method: EPA 3005A



# Lab Control Sample Analysis Batch Quality Control

Project Name: PDA NPDES
Project Number: 101.05023.001

Lab Number: L1429561

Report Date:

12/16/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sar	mple(s): 01-04	Batch: WG	747675-2					
Arsenic, Total	100		-		80-120	-		
Lead, Total	106		-		80-120	-		
Nickel, Total	103		-		80-120	-		
Zinc, Total	112		-		80-120	-		
Total Metals - Westborough Lab Associated sar	nple(s): 01-04	Batch: WG	747677-2					
Iron, Total	100		-		85-115	-		

## Matrix Spike Analysis Batch Quality Control

Project Name: PDA NPDES
Project Number: 101.05023.001

Lab Number: L1429561

**Report Date:** 12/16/14

arameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery Qual	Recovery Limits	RPD	RPD Qual Limits
Total Metals - Westborough Lab	Associated	sample(s):	01-04 QC E	Batch ID: WG	747675-4	QC S	Sample: L1429561-01	Client ID:	FLAGS	TONE CREEK
Arsenic, Total	0.01308	0.12	0.1334	100		-	-	75-125	-	20
Lead, Total	0.0058	0.51	0.5397	105		-	-	75-125	-	20
Nickel, Total	0.0020	0.5	0.5002	100		-	-	75-125	-	20
Zinc, Total	0.04570	0.5	0.5519	101		-	-	75-125	-	20
Total Metals - Westborough Lab	Associated	sample(s):	01-04 QC E	Batch ID: WG	747677-4	QC S	Sample: L1429561-01	Client ID:	FLAGS	TONE CREEK
Iron, Total	2.8	1	3.8	100		-	-	75-125	-	20

# Lab Duplicate Analysis Batch Quality Control

**Project Name:** PDA NPDES **Project Number:** 101.05023.001

Lab Number:

L1429561

Report Date:

12/16/14

Parameter		Native	Sample	Duplica	te Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab	Associated sample(s):	01-04	QC Batch ID:	WG747675-	3 QC Sample	: L1429561-0 <sup>-</sup>	Client ID	: FLAGST	ONE CREEK
Arsenic, Total		0.01	308	0.0	)1233	mg/l	6		20
Zinc, Total		0.04	1570	0.0	)4348	mg/l	5		20
Total Metals - Westborough Lab	Associated sample(s):	01-04	QC Batch ID:	WG747677-	3 QC Sample	: L1429561-01	Client ID	: FLAGST	ONE CREEK
Iron, Total		2	.8		2.8	mg/l	0		20



# INORGANICS & MISCELLANEOUS



**Project Name: PDA NPDES** Lab Number: L1429561 **Project Number:** 101.05023.001 Report Date: 12/16/14

### **SAMPLE RESULTS**

Lab ID: Date Collected: L1429561-01 12/09/14 10:55

FLAGSTONE CREEK Client ID: Date Received: 12/09/14 Sample Location: PEASE INTERNATIONAL TRADE PORT Not Specified Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westbo	orough Lab	)								
Solids, Total Suspended	38.		mg/l	5.0	NA	1	-	12/10/14 11:55	30,2540D	DW
Chemical Oxygen Demand	200		mg/l	20		1	12/11/14 17:00	12/11/14 19:42	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/10/14 23:00	12/15/14 17:22	30,5210B	SE
Oil & Grease, Hem-Grav	ND		mg/l	4.0		1	12/10/14 12:30	12/10/14 15:00	74,1664A	ML
Surfactants, MBAS	0.060		mg/l	0.050		1	12/09/14 23:30	12/10/14 01:24	30,5540C	MR



 Project Name:
 PDA NPDES
 Lab Number:
 L1429561

 Project Number:
 101.05023.001
 Report Date:
 12/16/14

SAMPLE RESULTS

Lab ID: L1429561-02

Client ID: GRAFTON

Sample Location: PEASE INTERNATIONAL TRADE PORT

Matrix: Water

Date Collected: 12/09/14 11:25

Date Received: 12/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lal	b								
Cyanide, Total	0.056		mg/l	0.005		1	12/11/14 16:27	12/12/14 17:35	30,4500CN-CE	JO
BOD, 5 day	3.3		mg/l	2.0	NA	1	12/10/14 23:00	12/15/14 17:22	30,5210B	SE
Oil & Grease, Hem-Grav	ND		mg/l	4.0		1	12/10/14 12:30	12/10/14 15:00	74,1664A	ML
Surfactants, MBAS	0.070		mg/l	0.050		1	12/09/14 23:30	12/10/14 01:24	30,5540C	MR



**Project Name: PDA NPDES** Lab Number: L1429561 **Project Number:** 101.05023.001

Report Date: 12/16/14

### **SAMPLE RESULTS**

Lab ID: L1429561-03 Date Collected: 12/09/14 11:55

MCINTYRE BROOK Client ID: Date Received: 12/09/14 Sample Location: PEASE INTERNATIONAL TRADE PORT Not Specified Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lat	)								
Solids, Total Suspended	16.		mg/l	5.0	NA	1	-	12/10/14 11:55	30,2540D	DW
Chemical Oxygen Demand	93.		mg/l	20		1	12/11/14 17:00	12/11/14 19:42	44,410.4	TL
BOD, 5 day	68.		mg/l	15	NA	7.5	12/10/14 23:00	12/15/14 17:22	30,5210B	SE
Oil & Grease, Hem-Grav	ND		mg/l	4.0		1	12/10/14 12:30	12/10/14 15:00	74,1664A	ML
Surfactants, MBAS	ND		mg/l	0.050		1	12/09/14 23:30	12/10/14 01:25	30,5540C	MR



Project Number: PDA NPDES Lab Number: L1429561

**Project Number:** 101.05023.001 **Report Date:** 12/16/14

### **SAMPLE RESULTS**

 Lab ID:
 L1429561-04
 Date Collected:
 12/09/14 12:50

 Client ID:
 HODGSON BROOK
 Date Received:
 12/09/14

Client ID: HODGSON BROOK Date Received: 12/09/14
Sample Location: PEASE INTERNATIONAL TRADE PORT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lat	)								
BOD, 5 day	4.5		mg/l	2.0	NA	1	12/10/14 23:00	12/15/14 17:22	30,5210B	SE
Oil & Grease, Hem-Grav	ND		mg/l	4.0		1	12/10/14 12:30	12/10/14 15:00	74,1664A	ML
Surfactants, MBAS	0.070		ma/l	0.050		1	12/09/14 23:30	12/10/14 01:25	30.5540C	MR



Project Name: PDA NPDES
Project Number: 101.05023.001

**Lab Number:** L1429561 **Report Date:** 12/16/14

# Method Blank Analysis Batch Quality Control

Parameter	Result Qua	lifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab fo	or sample(s): 01	-04 Bat	tch: WG	6747114-1				
Surfactants, MBAS	ND	mg/l	0.050		1	12/09/14 23:30	12/10/14 01:22	30,5540C	MR
General Chemistry - We	estborough Lab fo	or sample(s): 01	,03 Bat	tch: WG	3747160-1				
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	12/10/14 11:55	30,2540D	DW
General Chemistry - We	estborough Lab fo	or sample(s): 01	-04 Bat	tch: WG	G747277-1				
Oil & Grease, Hem-Grav	ND	mg/l	4.0		1	12/10/14 12:30	12/10/14 15:00	74,1664A	ML
General Chemistry - We	estborough Lab fo	or sample(s): 01	-04 Bat	tch: WG	G747458-1				
BOD, 5 day	ND	mg/l	2.0	NA	1	12/10/14 23:00	12/15/14 17:22	30,5210B	SE
General Chemistry - We	estborough Lab fo	or sample(s): 02	Batch:	WG74	7783-1				
Cyanide, Total	ND	mg/l	0.005		1	12/11/14 16:27	12/12/14 17:33	30,4500CN-CE	E JO
General Chemistry - We	estborough Lab fo	or sample(s): 01	,03 Bat	tch: WG	3747823-1				
Chemical Oxygen Demand	ND	mg/l	20		1	12/11/14 17:00	12/11/14 19:41	44,410.4	TL



# Lab Control Sample Analysis Batch Quality Control

Project Name: PDA NPDES
Project Number: 101.05023.001

Lab Number:

L1429561

Report Date:

12/16/14

Parameter	LCS %Recovery Qua	LCSD I %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-0	04 Batch: WG7471	14-2				
Surfactants, MBAS	98	-		65-126	-		
General Chemistry - Westborough Lab	Associated sample(s): 01-0	)4 Batch: WG7472	77-2				
Oil & Grease, Hem-Grav	92	-		78-114	-		18
General Chemistry - Westborough Lab	Associated sample(s): 01-0	)4 Batch: WG7474	58-2				
BOD, 5 day	103	-		85-115	-		20
General Chemistry - Westborough Lab	Associated sample(s): 02	Batch: WG747783-	2				
Cyanide, Total	104	-		90-110	-		
General Chemistry - Westborough Lab	Associated sample(s): 01,0	3 Batch: WG7478	23-2				
Chemical Oxygen Demand	100	-		95-105	-		

# Matrix Spike Analysis Batch Quality Control

Project Name: PDA NPDES
Project Number: 101.05023.001

Lab Number:

L1429561

Report Date:

12/16/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westboro	ugh Lab Asso	ciated samp	ole(s): 01-04	QC Batch II	D: WG7	17114-4	QC Sample: L	1429561	I-03 Clie	nt ID:	MCINTY	RE BROOK
Surfactants, MBAS	ND	0.4	0.360	90		-	-		52-157	-		32
General Chemistry - Westboro	ugh Lab Asso	ciated samp	ole(s): 01-04	QC Batch II	D: WG7	17277-4	QC Sample: L	1429558	3-13 Clie	nt ID:	MS Sam	ple
Oil & Grease, Hem-Grav	ND	40.8	38	94		-	-		78-114	-		18
General Chemistry - Westboro	ugh Lab Asso	ciated samp	ole(s): 01-04	QC Batch II	D: WG7	17458-4	QC Sample: L	1429578	3-01 Clie	nt ID:	MS Sam	ple
BOD, 5 day	ND	100	130	131		-	-		50-145	-		35
General Chemistry - Westboro	ugh Lab Asso	ciated samp	ole(s): 02 C	C Batch ID: V	NG7477	83-3 Q	C Sample: L142	29561-02	2 Client II	D: GR	AFTON	
Cyanide, Total	0.056	0.2	0.275	109		-	-		90-110	-		30
General Chemistry - Westboro	ugh Lab Asso	ciated samp	ole(s): 01,03	QC Batch II	D: WG74	17823-3	QC Sample: L	1429610	0-07 Clier	nt ID:	MS Sam	ple
Chemical Oxygen Demand	26	238	260	97		-	-		80-120	-		20

# Lab Duplicate Analysis Batch Quality Control

**Project Name:** PDA NPDES **Project Number:** 101.05023.001 Lab Number: L1429561 12/16/14

Report Date:

Parameter	Nati	ve San	nple D	uplicate Sam	ple Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s):	01-04	QC Batch ID:	WG747114-3	QC Sample:	L1429493-02	Client ID:	DUP Sample
Surfactants, MBAS		0.110		0.110	mg/l	0		32
General Chemistry - Westborough Lab	Associated sample(s):	01,03	QC Batch ID:	WG747160-2	QC Sample:	L1429549-01	Client ID:	DUP Sample
Solids, Total Suspended		25		20	mg/l	22		29
General Chemistry - Westborough Lab	Associated sample(s):	01-04	QC Batch ID:	WG747277-3	QC Sample:	L1429558-10	Client ID:	DUP Sample
Oil & Grease, Hem-Grav		ND		ND	mg/l	NC		18
General Chemistry - Westborough Lab	Associated sample(s):	01-04	QC Batch ID:	WG747458-3	QC Sample:	L1429578-01	Client ID:	DUP Sample
BOD, 5 day		ND		ND	mg/l	NC		35
General Chemistry - Westborough Lab	Associated sample(s):	02 Q	C Batch ID: W	G747783-4 C	QC Sample: L1	429611-01 Cli	ent ID: DI	JP Sample
Cyanide, Total		ND		ND	mg/l	NC		30
General Chemistry - Westborough Lab	Associated sample(s):	01,03	QC Batch ID:	WG747823-4	QC Sample:	L1429610-07	Client ID:	DUP Sample
Chemical Oxygen Demand		26		26	mg/l	0		20

Project Name:PDA NPDESLab Number:L1429561Project Number:101.05023.001Report Date:12/16/14

# **Sample Receipt and Container Information**

Were project specific reporting limits specified?

Reagent H2O Preserved Vials Frozen on: NA

# Cooler Information Custody Seal

Cooler

A Absent
D Absent
B Absent
C Absent

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1429561-01A	Plastic 250ml HNO3 preserved	С	<2	2.4	Υ	Absent	ZN-6020T(180),FE-UI(180),AS- 6020T(180)
L1429561-01B	Plastic 250ml H2SO4 preserved	С	<2	2.4	Υ	Absent	COD-410(28)
L1429561-01C	Plastic 500ml unpreserved	С	7	2.4	Υ	Absent	BOD-5210(2)
L1429561-01D	Plastic 950ml unpreserved	С	7	2.4	Υ	Absent	MBAS-5540(2)
L1429561-01E	Plastic 950ml unpreserved	С	7	2.4	Υ	Absent	TSS-2540(7)
L1429561-01F	Amber 1000ml HCl preserved	С	N/A	2.4	Υ	Absent	OG-1664(28)
L1429561-01G	Amber 1000ml HCl preserved	С	N/A	2.4	Υ	Absent	OG-1664(28)
L1429561-02A	Plastic 250ml HNO3 preserved	В	<2	3.1	Y	Absent	NI-6020T(180),ZN- 6020T(180),FE-UI(180),PB- 6020T(180)
L1429561-02B	Plastic 250ml NaOH preserved	В	>12	3.1	Υ	Absent	TCN-4500(14)
L1429561-02C	Plastic 500ml unpreserved	В	7	3.1	Υ	Absent	BOD-5210(2)
L1429561-02D	Plastic 950ml unpreserved	В	7	3.1	Υ	Absent	MBAS-5540(2)
L1429561-02E	Amber 1000ml HCl preserved	В	N/A	3.1	Υ	Absent	OG-1664(28)
L1429561-02F	Amber 1000ml HCl preserved	В	N/A	3.1	Υ	Absent	OG-1664(28)
L1429561-03A	Plastic 250ml HNO3 preserved	Α	<2	2.3	Υ	Absent	ZN-6020T(180),FE-UI(180)
L1429561-03B	Plastic 250ml H2SO4 preserved	Α	<2	2.3	Υ	Absent	COD-410(28)
L1429561-03C	Plastic 500ml unpreserved	Α	7	2.3	Υ	Absent	BOD-5210(2)
L1429561-03D	Plastic 950ml unpreserved	Α	7	2.3	Υ	Absent	MBAS-5540(2)
L1429561-03E	Plastic 950ml unpreserved	Α	7	2.3	Υ	Absent	TSS-2540(7)
L1429561-03F	Amber 1000ml HCl preserved	Α	N/A	2.3	Υ	Absent	OG-1664(28)
L1429561-03G	Amber 1000ml HCl preserved	Α	N/A	2.3	Υ	Absent	OG-1664(28)
L1429561-04A	Plastic 250ml HNO3 preserved	D	<2	3.3	Υ	Absent	FE-UI(180),PB-6020T(180)
L1429561-04B	Plastic 500ml unpreserved	D	7	3.3	Υ	Absent	BOD-5210(2)



Project Name:PDA NPDESLab Number:L1429561Project Number:101.05023.001Report Date:12/16/14

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1429561-04C	Plastic 950ml unpreserved	D	7	3.3	Υ	Absent	MBAS-5540(2)
L1429561-04D	Amber 1000ml HCI preserved	D	N/A	3.3	Υ	Absent	OG-1664(28)
L1429561-04E	Amber 1000ml HCl preserved	D	N/A	3.3	Υ	Absent	OG-1664(28)



 Project Name:
 PDA NPDES
 Lab Number:
 L1429561

 Project Number:
 101.05023.001
 Report Date:
 12/16/14

#### **GLOSSARY**

#### Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes
or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

 Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

#### Footnotes

SRM

 The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

## Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
  of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



 Project Name:
 PDA NPDES
 Lab Number:
 L1429561

 Project Number:
 101.05023.001
 Report Date:
 12/16/14

#### **Data Qualifiers**

- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- **ND** Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



 Project Name:
 PDA NPDES
 Lab Number:
 L1429561

 Project Number:
 101.05023.001
 Report Date:
 12/16/14

#### REFERENCES

- Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I IV, 2007.
- Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- Method 1664,Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

## **LIMITATION OF LIABILITIES**

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



### **Certification Information**

Last revised December 16, 2014

#### The following analytes are not included in our NELAP Scope of Accreditation:

#### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, lodomethane (methyl iodide), Methyl methacrylate,

Azobenzene

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

## **Mansfield Facility**

EPA 8270D: Biphenyl. EPA 2540D: TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene,

Benzothiophene, 1-Methylnaphthalene.

## The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

#### **Drinking Water**

**EPA 200.8**: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1**: Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C,

SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

**EPA 332**: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

#### Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F,

EPA 353.2: Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,

Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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Nancy Marshall Ransom Consulting, Inc. (MA) 12 Kent Way, Suite 100 Byfield, MA 01922-1221



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 138919

Client Identification: Pease International Tradeport | 101.05023.001

Date Received: 12/10/2014

#### Dear Ms. Marshall:

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted

< : "less than" followed by the reporting limit

> : "greater than" followed by the reporting limit

%R: % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director

12.18.14

Date

# of pages (excluding cover letter)



EAI ID#: 138919

Client: Ransom Consulting, Inc. (MA)

Client Designation: Pease International Tradeport | 101.05023.001

Temperature upon receipt (°C): 3

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received		Sample Matrix	Exceptions/Comments (other than thermal preservation)
138919.01	Flagstone Creek	12/10/14	12/8/14	aqueous	Adheres to Sample Acceptance Policy
138919.02	McIntyre Brook	12/10/14	12/9/14	aqueous	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the

recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater, 20th Edition, 1998 and 22nd Edition, 2012
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 2nd edition, 1992



EAI ID#: 138919

Client: Ransom Consulting, Inc. (MA)

Client Designation: Pease International Tradeport | 101.05023.001

Sample ID:	Flagstone Creek	McIntyre Brook
	120010.01	
Lab Sample ID:	138919.01	138919.02
Matrix:	aqueous	aqueous
Date Sampled:	12/8/14	12/9/14
Date Received:	12/10/14	12/10/14
Units:	mg/L	mg/L
Date of Analysis:	12/12/14	12/12/14
Analyst:	BAM	BAM
Method:	8015Cmod	8015Cmod
Dilution Factor:	1	1
Propylene Glycol	< 1	23
2,2,2-Trichloroethanol(surr)	95 %R	96 %R



EAI ID#: 138919

Client: Ransom Consulting, Inc. (MA)

Client Designation: Pease International Tradeport | 101.05023.001

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD Met	hod
Propylene Glycol	< 1	17 (84 %R)	20 (101 %R) (18 RPD)	12/12/2014	mg/L	70 - 130	20 8015	Cmo
2,2,2-Trichloroethanol(surr)	99 %R	103 %R	103 %R	12/12/2014	% Rec	70 - 130	8015	Cmo

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

\*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

Professional laboratory & drilling services	A A Eastern Analytical, Inc.	QUOTE #:	REGULATORY PROGRAM: NPDES: HGP POTW STORMWATER GWP OIL FUND BROWNFIELD OTHER:	STATE: NH MA ME V	PROJECT #: 101.05023.001	SITE NAME: Pease International Tradeport	E-MAIL: nmarshall@ransomenv.com	PHONE: 100 100 100 100 100 100 100 100 100 10	CITY: Portsmouth	Address: 112 Corporate Drive	COMPANY: Ransom Consulting, Inc.	PROJECT MANAGER. Nancy Marshall	PRESERVATIVE: H-HCL; N-HNO3; S-H3SO4; Na-NaOH; M-MEOH	MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER;							McIntyle brook	Flagstone Creek	SAMPLE I.D.	
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